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NOTICE OF ALLOWANCE AND FEE(S) DUE

36716

7590

09/17/2009

LADAS & PARRY 5670 WILSHIRE BOULEVARD, SUITE 2100 LOS ANGELES, CA 90036-5679 EXAMINER

MALEVIC, DJURA

ART UNIT PAPER NUMBER

2884

DATE MAILED: 09/17/2009

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/585.673	10/26/2006	Hirovuki Takahashi	B-6037PCT 623562-9	4702

TITLE OF INVENTION: PARTICLE DETECTION DEVICE AND PARTICLE DETECTION METHOD

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300	\$0	\$1810	12/17/2009

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

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If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

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Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE

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INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where n

ppropriate. All further ndicated unless correcte naintenance fee notifica		g the Patent, advance or erwise in Block 1, by (a	rders and notification of a) specifying a new con	of ma	intenance fees wi ondence address;	ll be and/or	mailed to the current (b) indicating a separ	correspondence address as rate "FEE ADDRESS" for
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			[(Depositor's name)
								(Signature)
			L					(Date)
APPLICATION NO.	FILING DATE		FIRST NAMED INVENT	OR		ATTO:	RNEY DOCKET NO.	CONFIRMATION NO.
10/585,673	10/26/2006	-	Hiroyuki Takahashi	i		B-60	37PCT 623562-9	4702
APPLN. TYPE	SMALL ENTITY	ON DEVICE AND PAR	PUBLICATION FEE DU		PREV. PAID ISSUE	FFF I	TOTAL FEE(S) DUE	DATE DUE
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EXAM		ART UNIT	CLASS-SUBCLASS					
MALEVIO		2884	250-385100					
. Change of correspondence address or indication of "Fee Address" (37 :FR 1.363). Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached. "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. Use of a Customer Number is required.			or agents OR, altern (2) the name of a single registered attorney of a registered patent a	(1) the names of up to 3 registered patent attorneys or agents OR, alternatively, (2) the name of a single firm (having as a member a registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed.				
PLEASE NOTE: Unl	less an assignee is identi h in 37 CFR 3.11. Comp	A TO BE PRINTED ON The fied below, no assignee eletion of this form is NO	data will appear on the	e pate an ass	ent. If an assigned signment.			ocument has been filed for
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10/585,673	10/26/2006	Hiroyuki Takahashi	B-6037PCT 623562-9	4702		
36716 75	7590 09/17/2009		EXAMINER			
LADAS & PARI	RY	MALEVIC, DJURA				
5670 WILSHIRE BOULEVARD, SUITE 2100			ART UNIT	PAPER NUMBER		
LOS ANGELES, O	CA 90036-5679		2884			
			DATE MAILED: 09/17/2009			

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 631 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 631 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 (571)-272-4200.

	Application No.	Applicant(s)		
	10/585.673	TAKAHASHI ET AL.		
Notice of Allowability	Examiner	Art Unit	_	
	DJURA MALEVIC	2884		
The MAILING DATE of this communication app All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85 NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT R of the Office or upon petition by the applicant. See 37 CFR 1.31:	ears on the cover sheet w 5 (OR REMAINS) CLOSED i) or other appropriate comm RIGHTS. This application is	n this application. If not included unication will be mailed in due course. THIS	<u>-</u>	
1. This communication is responsive to <u>12/22/2006</u> .				
2. The allowed claim(s) is/are <u>1-11,13-26,28,32 and 59-66.</u>				
3. Acknowledgment is made of a claim for foreign priority u a) All b) Some* c) None of the: 1. Certified copies of the priority documents hav 2. Certified copies of the priority documents hav 3. Copies of the certified copies of the priority do International Bureau (PCT Rule 17.2(a)). * Certified copies not received: Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDON!	e been received. e been received in Application cuments have been receive of this communication to file	on No Ind in this national stage application from the		
 THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. 4. A SUBSTITUTE OATH OR DECLARATION must be subn INFORMAL PATENT APPLICATION (PTO-152) which give 				
5. \square CORRECTED DRAWINGS (as "replacement sheets") mu	st be submitted.			
(a) ☐ including changes required by the Notice of Draftsper		w (PTO-948) attached		
1) ☐ hereto or 2) ☐ to Paper No./Mail Date	=			
(b) ☐ including changes required by the attached Examiner Paper No./Mail Date Identifying indicia such as the application number (see 37 CFR)				
each sheet. Replacement sheet(s) should be labeled as such in				
 DEPOSIT OF and/or INFORMATION about the depo- attached Examiner's comment regarding REQUIREMENT 				
 Attachment(s) 1. ☑ Notice of References Cited (PTO-892) 2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948) 3. ☑ Information Disclosure Statements (PTO/SB/08),	6. ☐ Interview S Paper No. 7.	onformal Patent Application Summary (PTO-413), /Mail Date S Amendment/Comment S Statement of Reasons for Allowance		
/Djura Malevic/ Examiner, Art Unit 2884				
LAGITINIET, ATT OTHE 2004				

DETAILED ACTION

<u>Information Disclosure Statement</u>

The information disclosure statement filed 12/22/2006 fails to comply with 37 CFR 1.98(a)(2), which requires a legible copy of each cited foreign patent document; each non-patent literature publication or that portion which caused it to be listed; and all other information or that portion which caused it to be listed. It has been placed in the application file, but the information referred to therein that's crossed out has not been considered. In this instance, a copy of the Kai et al. non-patent literature publication was not provided.

EXAMINER'S AMENDMENT

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Brain Cash on 07/14/2009.

The application has been amended as follows:

Add the following to the beginning of the 1st paragraph of the specification:

Cross-reference to Related Applications

This application is a U.S. national stage entry of the international application

PCT/JP05/00090 (published as WO 2005/066657) filed on January 7, 2005, and claims priority to the Japanese application No.

2004-050869, filed February 26, 2004, and U.S. provisional application 60/535,208, filed January 9, 2004.

Allowable Subject Matter

Claims 1 – 11, 13 – 26, 28, 32, and 59 – 66 are allowed.

The following is an examiner's statement of reasons for allowance:

With regards to *independent claims 1 and 32*, the prior art on record fails to expressly disclose a particle detector or a method for detecting position of particles, comprising electrodes for detecting position of particles, said electrodes comprising: one or more global position detection electrodes for detecting global position of particles; wherein *specifically*, the local position within the global position is determined by using the global position detected by said global position detection electrodes the local position detected by said local position detection electrodes, in combination with the rest of the claimed limitations.

Although references such as Giakos (US Patent 6,703,619), Takahashi (US Patent 6,933,506 B2), Takahasi (US Patent 6207958), Friedman et al. (US Patent 7,332,726 B2) and Takahashi et al. (Development of a Multi-grid....Sources; Science Direct; A 513 (2003) 201 - 205) disclose most of the essential parts (particle detector, anodes, and cathodes,) they do not specify using the local position within the global position as claimed, but rather arrangements without a global position electrode. One of ordinary skill in the art would not be motivated to add such an arrangement as claimed to the disclosure of Giakos, Takahasi, Takahasi Friedman and/or Takahashi et al., absent hindsight reasoning. The conventional individual readout methods, such as

those taught by Giakos, Takahasi, Takahasi, Friedman and Takahashi et al, rely on single charge readout lines per each strip/pad. The global arrangement provides two groups, therefore providing a more desirable signal to noise when compared to the conventional arrangement. As such, claims 1 and 32 provides a nonobviousness improvement over the prior art on record.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to DJURA MALEVIC whose telephone number is 571.272.5975. The examiner can normally be reached on Monday - Friday between 8:30am and 4:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David Porta can be reached on 571.272.2444. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Art Unit: 2884

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/David P. Porta/ Supervisory Patent Examiner, Art Unit 2884

/Djura Malevic/ Examiner, Art Unit 2884 571.272.5975